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State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

January 21, 2014

Marvin Crowther
TCM Bertha, LLC
5865 Cache Circle
Morgan, Utah 84050

Subject: Deficient Notice of Intention to Commence Small Mining Operations, TCM Bertha, LLC., Silver Reef Mine, S/045/0092, Tooele County, Utah

Dear Mr. Crowther:

The Division of Oil, Gas and Mining has reviewed the referenced Notice of Intention to Commence Small Mining Operations (NOI), and the following items will need to be addressed before the NOI can be determined complete:

1. Please provide a Cultural Resources Survey.
2. Page 1 – I.1. Please change the mine name to something other than “Silver Reef”, as the Division already has a mine with that name.
3. Page 2 – 2.C. Please complete the box and do not refer to another page.
4. Page 3 – 6. Add the BLM project number when it is available.
5. Page 3 – 8. Consider adding wildlife habitat which has historically been a land use.
6. Page 3 – II. 1. The quarter section(s) is in incorrect space; please move to the box just left of “section.”
7. Page 3 – II. 1. Please add the datum to the UTM coordinates. It should be NAD 27 or 83.
8. Page 4 – III. 3. It is unclear what the annual total will be. Please clarify.
9. Page 4 – III. 4. Add a statement that no other chemicals will be used on site.
10. Figure 1 & 3 Please add the datum, NAD 27 or 83, to the UTM coordinates.
11. Figure 3 Add Township, Range & Section onto the map.
12. Figure 3 Please fix colors between legend and map. This applies to section and quarter boundary and vehicle parking and equipment storage.
13. MR-RC – page 1 Add File No. “S/045/0092.”

The Plan of Operations is for the BLM, but as an attachment, please address the following comments:

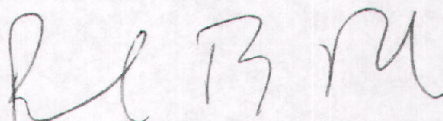


- a. Page 2. - 1.3. Add the datum to the UTM coordinates.
- b. Page 3. - 2.1.2. Refer to section 3.1.3 under section 2.1.2. Rock characteristics indicate ARD might be an issue. (include information on lining).
- c. Page 3. - 2.2.1. Please include horizontal and vertical designations with the slope of "2:1," such as 2H:1V. This would be the proper designation using English units and would make the plan consistent. This also applies to page 10. 4.2.
- d. Page 5. Figure 5 is not attached
- e. Page 5. - 3.1.3 The Division recommends addressing the waste rock piles and blending limestone waste with sulphide waste to eliminate ARD.
- f. Page 6. - 3.2. Without a specific variance, the Division does not allow pit walls steeper than 45 degrees. Either request a variance for slopes steeper than 45 degrees or state that open pit slopes will not exceed 45 degrees.
- g. Page 6. - 3.3. It is unclear what the annual total will be. Please clarify.
- h. Page 6. - 3.4. Please print out the map and include it in the plan.
- i. Page 10 - 4.2. See comment c above.
- j. Page 10 - 4.6 The Division recommends including the mix prior to approval.
- k. Page 11 - 5.1.2 The Division recommends placing the berm prior to dumping and maintaining the berm throughout the life of the stockpile.
- l. Page 12 - Trash is to be picked up and removed to an approved facility on a regular basis throughout the life of mine.

Please provide your response as replacement pages to the original NOI using Form MR-REV-SMO/EXP, available on the Division's web site at www.ogm.utah.gov

Please call Leslie Heppler at 801-538-5257 or me at 801-538-5261 if you have any questions regarding this letter. In reply, please refer to file number S/045/0092. Thank you for your cooperation.

Sincerely,



Paul B. Baker
Minerals Program Manager

PBB: lah: eb

cc: Stephen Allen, Salt Lake BLM (SAllen@blm.gov)

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